

Author Index

- Adler, P.N., see Park, W.-J. (45) 127
- Baker, B.S., see Rabelo, E.M.L. (45) 49
- Brem, G., see Kaltschmidt, C. (45) 203
- Britten, R.J., see Cameron, R.A. (45) 31
- Britten, R.J., see Leahy, P.S. (45) 255
- Cameron, R.A., Smith, L.C., Britten, R.J. and Davidson, E.H.
Ligand-dependent stimulation of introduced mammalian brain receptors alters spicule symmetry and other morphogenetic events in sea urchin embryos (45) 31
- Cameron, R.A., see Leahy, P.S. (45) 255
- Capco, D.G., see Gallicano, G.I. (45) 211
- Cardellini, P., Polo, C. and Coral, S.
Suramin and heparin: aspecific inhibitors of mesoderm induction in the *Xenopus laevis* embryo (45) 73
- Chambers, I., see Yoshida, K. (45) 163
- Chambon, P., see Dollé, P. (45) 91
- Chambon, P., see Mendelsohn, C. (45) 227
- Chen, L., see Soprano, D.R. (45) 243
- Clement, J.H., see Lef, J. (45) 117
- Clifford, J., see Mendelsohn, C. (45) 227
- Coral, S., see Cardellini, P. (45) 73
- Crews, S.T., see Franks, R.G. (45) 269
- Davidson, E.H., see Cameron, R.A. (45) 31
- Davidson, E.H., see Leahy, P.S. (45) 255
- De Robertis, E.M., see Pfeffer, P.L. (45) 147
- Dickson, C., see Mason, I.J. (45) 15
- Dollé, P., Fraulob, V., Kastner, P. and Chambon, P.
Developmental expression of murine retinoid X receptor (RXR) genes (45) 91
- Dziadek, M., see Thomas, T. (45) 193
- Emori, Y., see Sugaya, R. (45) 139
- Estrabot, A.M.G., see Richardson, J.C. (45) 173
- Franks, R.G. and Crews, S.T.
Transcriptional activation domains of the single-minded bHLH protein are required for CNS midline cell development (45) 269
- Fraulob, V., see Dollé, P. (45) 91
- Fuller-Pace, F., see Mason, I.J. (45) 15
- Gallicano, G.I., Larabell, C.A., McGaughey, R.W. and Capco, D.G.
Novel cytoskeletal elements in mammalian eggs are composed of a unique arrangement of intermediate filaments (45) 211
- Glaser, G., see Lukowitz, W. (45) 105
- Guénal, I., see Mével-Ninio, M. (45) 155
- Gyda, III, M., see Soprano, D.R. (45) 243
- Harnish, D.C., see Soprano, D.R. (45) 243
- Hartmann, C., Taubert, H., Jäckle, H. and Pankratz, M.J.
A two-step mode of stripe formation in the *Drosophila* blastoderm requires interactions among primary pair rule genes (45) 3
- Hosoya, T., see Sugaya, R. (45) 139
- Hülkamp, M., see Lukowitz, W. (45) 105
- Ishimaru, S., see Sugaya, R. (45) 139
- Jäckle, H., see Hartmann, C. (45) 3
- Jiang, H., see Soprano, D.R. (45) 243
- Kaltschmidt, C., Muller, M., Brem, G. and Renkawitz, R.
DNase I hypersensitive sites far upstream of the rat tryptophan oxygenase gene direct developmentally regulated transcription in livers of transgenic mice (45) 203
- Kastner, P., see Dollé, P. (45) 91
- Kishimoto, T., see Yoshida, K. (45) 163
- Knöchel, W., see Lef, J. (45) 117
- Knox, M.A., see Leahy, P.S. (45) 255
- Kochhar, D.M., see Soprano, D.R. (45) 243
- Köster, M., see Lef, J. (45) 117
- Larabell, C.A., see Gallicano, G.I. (45) 211
- Larkin, S., see Mendelsohn, C. (45) 227
- Leahy, P.S., Cameron, R.A., Knox, M.A., Britten, R.J. and Davidson, E.H.
Development of sibling inbred sea urchins: Normal embryogenesis, but frequent postembryonic malformation, arrest and lethality (45) 255
- Lef, J., Clement, J.H., Oswald, R., Köster, M. and Knöchel, W.
Spatial and temporal transcription patterns of the *forkhead* related XFD-2/XFD-2' genes in *Xenopus laevis* embryos (45) 117
- LeMeur, M., see Mendelsohn, C. (45) 227
- Limbourg-Bouchon, B., see Mével-Ninio, M. (45) 155
- Liu, J., see Park, W.-J. (45) 127
- Lukowitz, W., Schröder, C., Glaser, G., Hülkamp, M. and Tautz, D.
Regulatory and coding regions of the segmentation gene *hunchback* are functionally conserved between *Drosophila virilis* and *Drosophila melanogaster* (45) 105
- Mark, M., see Mendelsohn, C. (45) 227
- Mason, I.J., Fuller-Pace, F., Smith, R. and Dickson, C.
FGF-7 (keratinocyte growth factor) expression during mouse development suggests roles in myogenesis, forebrain regionalisation and epithelial-mesenchymal interactions (45) 15
- McGaughey, R.W., see Gallicano, G.I. (45) 211
- Mendelsohn, C., Larkin, S., Mark, M., LeMeur, M., Clifford, J., Zelent, A. and Chambon, P.
RAR β isoforms: distinct transcriptional control by retinoic acid and specific spatial patterns of promoter activity during mouse embryonic development (45) 227
- Mével-Ninio, M., Guénal, I. and Limbourg-Bouchon, B.
Production of dominant female sterility in *Drosophila melanogaster* by insertion of the *ovo^{D1}* allele on autosomes: use of transformed strains to generate germline mosaics (45) 155

- Morio, T., Takeuchi, I. and Tasaka, M.
Cooperation of positively and negatively acting promoter elements determines prespore-specific transcription of Dp87 gene in *Dictyostelium* (45) 59
- Muller, M., see Kaltschmidt, C. (45) 203
- Nichols, J., see Yoshida, K. (45) 163
- Oschwald, R., see Lef, J. (45) 117
- Pankratz, M.J., see Hartmann, C. (45) 3
- Park, W.-J., Liu, J. and Adler, P.N.
The *frizzled* gene of *Drosophila* encodes a membrane protein with an odd number of transmembrane domains (45) 127
- Pfeffer, P.L. and De Robertis, E.M.
Regional specificity of RAR γ isoforms in *Xenopus* development (45) 147
- Polo, C., see Cardellini, P. (45) 73
- Rabelo, E.M.L., Baker, B.S. and Tata, J.R.
Interplay between thyroid hormone and estrogen in modulating expression of their receptor and vitellogenin genes during *Xenopus* metamorphosis (45) 49
- Renkawitz, R., see Kaltschmidt, C. (45) 203
- Richardson, J.C., Estrabot, A.M.G. and Woodland, H.R.
XrelA, a *Xenopus* maternal and zygotic homologue of the p65 subunit of NF- κ B. Characterisation of transcriptional properties in the developing embryo and identification of a negative interference mutant (45) 173
- Saigo, K., see Sugaya, R. (45) 139
- Saito, M., see Yoshida, K. (45) 163
- Satre, M., see Soprano, D.R. (45) 243
- Schröder, C., see Lukowitz, W. (45) 105
- Shoyab, M., see Yoshida, K. (45) 163
- Smith, A., see Yoshida, K. (45) 163
- Smith, L.C., see Cameron, R.A. (45) 31
- Smith, R., see Mason, I.J. (45) 15
- Soprano, D.R., Gyda, III, M., Jiang, H., Harnish, D.C., Ugen, K., Satre, M., Chen, L., Soprano, K.J. and Kochhar, D.M.
A sustained elevation in retinoic acid receptor- β 2 mRNA and protein occurs during retinoic acid-induced fetal dysmorphogenesis (45) 243
- Soprano, K.J., see Soprano, D.R. (45) 243
- Sugaya, R., Ishimaru, S., Hosoya, T., Saigo, K. and Emori, Y.
A *Drosophila* homolog of human proto-oncogene *ret* transiently expressed in embryonic neuronal precursor cells including neuroblasts and CNS cells (45) 139
- Taga, T., see Yoshida, K. (45) 163
- Takeuchi, I., see Morio, T. (45) 59
- Tasaka, M., see Morio, T. (45) 59
- Tata, J.R., see Rabelo, E.M.L. (45) 49
- Taubert, H., see Hartmann, C. (45) 3
- Tautz, D., see Lukowitz, W. (45) 105
- Thomas, T. and Dziadek, M.
Expression of collagen α 1(IV), laminin and nidogen genes in the embryonic mouse lung: implications for branching morphogenesis (45) 193
- Ugen, K., see Soprano, D.R. (45) 243
- Woodland, H.R., see Richardson, J.C. (45) 173
- Yasukawa, K., see Yoshida, K. (45) 163
- Yoshida, K., Chambers, I., Nichols, J., Smith, A., Saito, M., Yasukawa, K., Shoyab, M., Taga, T. and Kishimoto, T.
Maintenance of the pluripotential phenotype of embryonic stem cells through direct activation of gp130 signalling pathways (45) 163
- Zelent, A., see Mendelsohn, C. (45) 227

Subject Index

Basement membrane

Embryonic lung; Branching morphogenesis; Laminin; Nidogen; Collagen IV (Thomas, T. (45) 193)

Basic-helix-loop-helix

Drosophila; PAS domain; *single-minded*; Transcriptional activator (Franks, R.G. (45) 269)

Branching morphogenesis

Embryonic lung; Basement membrane; Laminin; Nidogen; Collagen IV (Thomas, T. (45) 193)

Cellular interaction

Signal transduction; Conditional specification; 7TD receptor; Serotonin; Nuclear distribution (Cameron, R.A. (45) 31)

Ciliary neurotrophic factor

Differentiation inhibiting activity; Leukemia inhibitory factor; Oncostatin M; Signal transduction; Self-renewal; Interleukin-6 (Yoshida, K. (45) 163)

Cis-acting elements

Dictyostelium; Prespore-specific gene; Transcriptional regulation (Morio, T. (45) 59)

Collagen IV

Embryonic lung; Branching morphogenesis; Basement membrane; Laminin; Nidogen (Thomas, T. (45) 193)

Conditional specification

Signal transduction; Cellular interaction; 7TD receptor; Serotonin; Nuclear distribution (Cameron, R.A. (45) 31)

Cytoskeleton

Mammalian egg; Mammalian embryo; Intermediate filament; Mouse (Gallicano, G.I. (45) 211)

Dictyostelium

Prespore-specific gene; Transcriptional regulation; *Cis*-acting elements (Morio, T. (45) 59)

Differentiation inhibiting activity

Leukemia inhibitory factor; Ciliary neurotrophic factor; Oncostatin M; Signal transduction; Self-renewal; Interleukin-6 (Yoshida, K. (45) 163)

DNase I hypersensitive sites

Gene expression; Liver; Transgenic mice; Tryptophan oxygenase (Kaltschmidt, C. (45) 203)

Drosophila

Evolution; Enhancer element; *hunchback* (Lukowitz, W. (45) 105)

Ret; Receptor PTK; Neuroblast; Neurogenesis (Sugaya, R. (45) 139)

Ovo^{D1} mutation; Germline clone (Mével-Ninio, M. (45) 155)

Basic-helix-loop-helix; PAS domain; *single-minded*; Transcriptional activator (Franks, R.G. (45) 269)

Drosophila melanogaster

Tissue polarity; *frizzled*; Membrane protein; Topology (Park, W.-J. (45) 127)

Embryogenesis

X. laevis; *Fork head*; Transcription factor (Lef, J. (45) 117)

Embryonic lung

Branching morphogenesis; Basement membrane; Laminin; Nidogen; Collagen IV (Thomas, T. (45) 193)

Enhancer element

Drosophila; Evolution; *hunchback* (Lukowitz, W. (45) 105)

Epithelial–mesenchymal interaction

Fibroblast growth factor; KGF; Myocardium; Skeletal muscle; Forebrain (Mason, I.J. (45) 15)

Estrogen

Xenopus; Metamorphosis; Vitellogenin gene expression; Thyroid hormone; Receptor autoinduction (Rabelo, E.M.L. (45) 49)

Evolution

Drosophila; Enhancer element; *hunchback* (Lukowitz, W. (45) 105)

Fibroblast growth factor

KGF; Myocardium; Skeletal muscle; Forebrain; Epithelial–mesenchymal interaction (Mason, I.J. (45) 15)

Forebrain

Fibroblast growth factor; KGF; Myocardium; Skeletal muscle; Epithelial–mesenchymal interaction (Mason, I.J. (45) 15)

Fork head

X. laevis; Transcription factor; Embryogenesis (Lef, J. (45) 117)

frizzled

Drosophila melanogaster; Tissue polarity; Membrane protein; Topology (Park, W.-J. (45) 127)

Gene expression

DNase I hypersensitive sites; Liver; Transgenic mice; Tryptophan oxygenase (Kaltschmidt, C. (45) 203)

Germline clone

Drosophila; *Ovo^{D1}* mutation (Mével-Ninio, M. (45) 155)

Heparin

Suramin; *Xenopus*; Mesoderm ; induction (Cardellini, P. (45) 73)

hunchback

Drosophila; Evolution; Enhancer element (Lukowitz, W. (45) 105)

Inbreeding

Naturally occurring recessive; Territorial specification (Leahy, P.S. (45) 255)

induction

Suramin; Heparin; *Xenopus*; Mesoderm (Cardellini, P. (45) 73)

In situ hybridization

Retinoic acid receptor; RAR; RXR; Mouse development (Dollé, P. (45) 91)

Interleukin-6

Differentiation inhibiting activity; Leukemia inhibitory factor; Ciliary neurotrophic factor; Oncostatin M; Signal transduction; Self-renewal (Yoshida, K. (45) 163)

Intermediate filament

Cytoskeleton; Mammalian egg; Mammalian embryo; Mouse (Gallicano, G.I. (45) 211)

Interstripe repressor element

Stripe formation; Pair rule gene (Hartmann, C. (45) 3)

KGF

Fibroblast growth factor; Myocardium; Skeletal muscle; Forebrain; Epithelial-mesenchymal interaction (Mason, I.J. (45) 15)

Laminin

Embryonic lung; Branching morphogenesis; Basement membrane; Nidogen; Collagen IV (Thomas, T. (45) 193)

Leukemia inhibitory factor

Differentiation inhibiting activity; Ciliary neurotrophic factor; Oncostatin M; Signal transduction; Self-renewal; Interleukin-6 (Yoshida, K. (45) 163)

Liver

DNase I hypersensitive sites; Gene expression; Transgenic mice; Tryptophan oxygenase (Kaltschmidt, C. (45) 203)

Mammalian egg

Cytoskeleton; Mammalian embryo; Intermediate filament; Mouse (Gallicano, G.I. (45) 211)

Mammalian embryo

Cytoskeleton; Mammalian egg; Intermediate filament; Mouse (Gallicano, G.I. (45) 211)

Membrane protein

Drosophila melanogaster; Tissue polarity; *frizzled*; Topology (Park, W.-J. (45) 127)

Mesoderm

Suramin; Heparin; *Xenopus*; induction (Cardellini, P. (45) 73)

Metamorphosis

Xenopus; Vitellogenin gene expression; Thyroid hormone; Estrogen; Receptor autoinduction (Rabelo, E.M.L. (45) 49)

Mouse

Cytoskeleton; Mammalian egg; Mammalian embryo; Intermediate filament (Gallicano, G.I. (45) 211)

Mouse development

Retinoic acid receptor; RAR; RXR; In situ hybridization (Dollé, P. (45) 91)

Myocardium

Fibroblast growth factor; KGF; Skeletal muscle; Forebrain; Epithelial-mesenchymal interaction (Mason, I.J. (45) 15)

Naturally occurring recessive

Inbreeding; Territorial specification (Leahy, P.S. (45) 255)

Neuroblast

Ret; Receptor PTK; Neurogenesis; *Drosophila* (Sugaya, R. (45) 139)

Neurogenesis

Ret; Receptor PTK; Neuroblast; *Drosophila* (Sugaya, R. (45) 139)

NF- κ B

Xenopus; *XrelA*; Transcription control (Richardson, J.C. (45) 173)

Nidogen

Embryonic lung; Branching morphogenesis; Basement membrane; Laminin; Collagen IV (Thomas, T. (45) 193)

Nuclear distribution

Signal transduction; Cellular interaction; Conditional specification; 7TD receptor; Serotonin (Cameron, R.A. (45) 31)

Oncostatin M

Differentiation inhibiting activity; Leukemia inhibitory factor; Ciliary neurotrophic factor; Signal transduction; Self-renewal; Interleukin-6 (Yoshida, K. (45) 163)

***Ovo^{D1}* mutation**

Drosophila; Germline clone (Mével-Ninio, M. (45) 155)

Pair rule gene

Interstripe repressor element; Stripe formation (Hartmann, C. (45) 3)

PAS domain

Basic-helix-loop-helix; *Drosophila*; *single-minded*; Transcriptional activator (Franks, R.G. (45) 269)

Prespore-specific gene

Dictyostelium; Transcriptional regulation; *Cis*-acting elements (Morio, T. (45) 59)

RAR

Retinoic acid receptor; RXR; Mouse development; In situ hybridization (Dollé, P. (45) 91)

RAR γ Isoform

Retinoic acid receptor; *Xenopus*; Tail (Pfeffer, P.L. (45) 147)

Receptor autoinduction

Xenopus; Metamorphosis; Vitellogenin gene expression; Thyroid hormone; Estrogen (Rabelo, E.M.L. (45) 49)

Receptor PTK

Ret; Neuroblast; Neurogenesis; *Drosophila* (Sugaya, R. (45) 139)

- Ret**
Receptor PTK; Neuroblast; Neurogenesis; *Drosophila* (Sugaya, R. (45) 139)
- Retinoic acid**
Retinoic acid receptors; Teratology (Soprano, D.R. (45) 243)
- Retinoic acid receptor**
RAR; RXR; Mouse development; In situ hybridization (Dollé, P. (45) 91)
- RAR γ Isoform; *Xenopus*; Tail (Pfeffer, P.L. (45) 147)
- Retinoic acid receptors**
Retinoic acid; Teratology (Soprano, D.R. (45) 243)
- RXR**
Retinoic acid receptor; RAR; Mouse development; In situ hybridization (Dollé, P. (45) 91)
- Self-renewal**
Differentiation inhibiting activity; Leukemia inhibitory factor; Ciliary neurotrophic factor; Oncostatin M; Signal transduction; Interleukin-6 (Yoshida, K. (45) 163)
- Serotonin**
Signal transduction; Cellular interaction; Conditional specification; 7TD receptor; Nuclear distribution (Cameron, R.A. (45) 31)
- Signal transduction**
Cellular interaction; Conditional specification; 7TD receptor; Serotonin; Nuclear distribution (Cameron, R.A. (45) 31)
- Differentiation inhibiting activity; Leukemia inhibitory factor; Ciliary neurotrophic factor; Oncostatin M; Self-renewal; Interleukin-6 (Yoshida, K. (45) 163)
- single-minded**
Basic-helix-loop-helix; *Drosophila*; PAS domain; Transcriptional activator (Franks, R.G. (45) 269)
- Skeletal muscle**
Fibroblast growth factor; KGF; Myocardium; Forebrain; Epithelial-mesenchymal interaction (Mason, I.J. (45) 15)
- Stripe formation**
Interstripe repressor element; Pair rule gene (Hartmann, C. (45) 3)
- Suramin**
Heparin; *Xenopus*; Mesoderm; induction (Cardellini, P. (45) 73)
- Tail**
Retinoic acid receptor; RAR γ Isoform; *Xenopus* (Pfeffer, P.L. (45) 147)
- 7TD receptor**
Signal transduction; Cellular interaction; Conditional specification; Serotonin; Nuclear distribution (Cameron, R.A. (45) 31)
- Teratology**
Retinoic acid; Retinoic acid receptors (Soprano, D.R. (45) 243)
- Territorial specification**
Naturally occurring recessive; Inbreeding (Leahy, P.S. (45) 255)
- Thyroid hormone**
Xenopus; Metamorphosis; Vitellogenin gene expression; Estrogen; Receptor autoinduction (Rabelo, E.M.L. (45) 49)
- Tissue polarity**
Drosophila melanogaster; *frizzled*; Membrane protein; Topology (Park, W.-J. (45) 127)
- Topology**
Drosophila melanogaster; Tissue polarity; *frizzled*; Membrane protein (Park, W.-J. (45) 127)
- Transcriptional activator**
Basic-helix-loop-helix; *Drosophila*; PAS domain; *single-minded* (Franks, R.G. (45) 269)
- Transcriptional regulation**
Dictyostelium; Prespore-specific gene; *Cis*-acting elements (Morio, T. (45) 59)
- Transcription control**
Xenopus; NF- κ B; *XrelA* (Richardson, J.C. (45) 173)
- Transcription factor**
X. laevis; *Fork head*; Embryogenesis (Lef, J. (45) 117)
- Transgenic mice**
DNase I hypersensitive sites; Gene expression; Liver; Tryptophan oxygenase (Kaltschmidt, C. (45) 203)
- Tryptophan oxygenase**
DNase I hypersensitive sites; Gene expression; Liver; Transgenic mice (Kaltschmidt, C. (45) 203)
- Vitellogenin gene expression**
Xenopus; Metamorphosis; Thyroid hormone; Estrogen; Receptor autoinduction (Rabelo, E.M.L. (45) 49)
- Xenopus**
Metamorphosis; Vitellogenin gene expression; Thyroid hormone; Estrogen; Receptor autoinduction (Rabelo, E.M.L. (45) 49)
- Suramin; Heparin; Mesoderm; induction (Cardellini, P. (45) 73)
- Retinoic acid receptor; RAR γ Isoform; Tail (Pfeffer, P.L. (45) 147)
- NF- κ B; *XrelA*; Transcription control (Richardson, J.C. (45) 173)
- X. laevis**
Fork head; Transcription factor; Embryogenesis (Lef, J. (45) 117)
- XrelA**
Xenopus; NF- κ B; Transcription control (Richardson, J.C. (45) 173)

